

ABSTRACT OF THE DISCLOSURE

A non-invasive monitoring and, in particular, a wearable system for the monitoring of vital signals (Cardiovascular, respiratory and an index of movement) to be used for the detection of potential pathologies via the acquisition, elaboration and transmission of signals, where the sensitive elements are done with knitted fabric, in direct contact with the body and that could be, if necessary, elastic, where yarns, having characteristics that allows the production of fabric piezoresistive regions and fabric conductive regions working as electrodes or connections, are integrated.